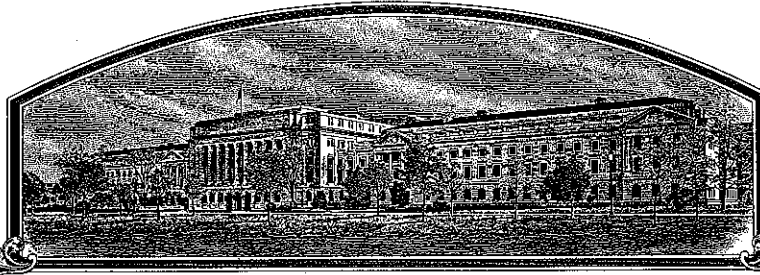


No.

200100267



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Fred B. Ledebauer

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

'Blue Knight'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifteenth day of June, in the year two thousand and five.

Attest:

  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) <b>Fred B. Ledebuer</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO. <b>LF-300</b>	3. VARIETY NAME <b>Blue Knight</b>
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) <b>22068 Case Road, NE, Aurora, OR 97002</b>		5. PHONE (Include area code) <b>503.678.2597</b>	<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER <b>200100267</b> Filing and Examination Fee: <b>\$2150 + \$555</b> Date <b>8/29/01 9/6/01</b> Certificate Fee: <b>\$432</b> Date <b>4/14/05</b>
6. GENUS AND SPECIES NAME <b>Poa pratensis</b>	7. FAMILY NAME (Botanical) <b>Gramineae</b>		
8. CROP KIND NAME (Common Name) <b>Kentucky Bluegrass</b>	9. DATE OF DETERMINATION <b>May 1998</b>		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			

PHONE (Include area code):

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety.
- b. ☒ Exhibit B, Novelty Statement.
- c. ☒ Exhibit C, Objective Description of Variety.
- d. ☒ Exhibit D, Additional Description of Variety.
- e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
- f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office August 2001.
- g. ☒ Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)

☐ YES (If "YES," answer items 16 and 17 below) ☒ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act. Give date: \_\_\_\_\_)  
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☒ YES (If "YES," give names of countries and dates) **US, first date of sale: September 8, 2000**  
☐ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s)) <b>Fred B. Ledebuer</b>	CAPACITY OR TITLE <b>Breeder</b>	DATE <b>August 21, 2001</b>
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR TITLE	DATE

## Exhibit A: Origin and Breeding History

Blue Knight originated from an aberrant plant found in 1995 in a commercial production field Linn County, Oregon of the variety Tendos. This variety was produced only briefly and then abandoned because of insufficient seed yields. The aberrant specimen had finer textured, more upright and darker foliage as well as more numerous seedheads.

The plant was removed and replanted in Aurora, OR, in late May 1995 to mature a seed crop. The seed was hand harvested and used partially to start turf evaluation plots as well about 100 next generation placed plants. Overall the progeny was quite uniform indicating a fairly high level of apomixis. In this progeny, again one plant appeared superior and outstanding in appearance and seed production potential. Seed from this plant was hand harvested in 1996, and the evaluation cycle was repeated with 100 spaced plants and turf evaluation plots in 1997.

The S-2 generation had 7% aberrants; all of which were less competitive, somewhat shorter, and overall less desirable as turf type Kentucky bluegrasses. They were discarded. Seed from five of the strongest plants, all of which appeared identical, was hand harvested and used to produce pre-breeder seed in 1998 from 200 spaced plants. From this planting 11 aberrants were detected. Ten plants were again shorter, less vigorous and with fewer seedheads. An additional plant was about 15cm taller with lighter colored, drooping foliage, and longer panicles, resembling a more common type. The remaining seed was used to produce breeder seed in 1999.

Blue Knight has been observed in turf and as spaced plants for three generations. The variety is stable and uniform. Variants as described above appear about 4-5% indicating that a 94-95% apomixis level exists under growing conditions in Western Oregon.

## Exhibit B: Novelty Statement

It is clearly impossible to compare all Kentucky bluegrass varieties presently on the market. The 2000 NTEP test contains 173 entries. For the comparison with Blue Knight, Baron and Midnight were chosen because they are ~~quite~~ similar when grown as spaced plants. Specific differences are listed below. Broadway was also used in the comparison as it is distinctly different from the other three, even though in plant height it is also similar. 708 12/13/03

1. Blue Knight has shorter and narrower flag leaves; panicles have fewer branches at the lowest whorl; and the stem diameter above the third node is smaller than for the other varieties. (Table I)
2. Turf quality in Western Oregon, summer color and density are significantly higher for Blue Knight than for Midnight, Baron, or Broadway. (table II)
3. Foliar disease occurrence in Western Oregon is usually quite consistent for stripe rust, powdery mildew and stem rust in Kentucky bluegrass spaced plants grown to maturity. (Table III) Blue Knight has better tolerance to stripe rust and powdery mildew over the other varieties and was affected significantly less by stem rust than Midnight.
4. Seed color of Blue Knight and Midnight (photo) are somewhat similar but Blue Knight is still slightly darker. Both of these varieties have distinctly darker seeds than Baron or Broadway.

Seed lengths of Midnight and Blue Knight are similar (Table IV). Again, both are longer than Baron or Broadway. Seed width of Blue knight is significantly greater than that of the other three.


PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MARYLAND 20705

**OBJECTIVE DESCRIPTION OF VARIETY**  
**BLUEGRASS (*Poa* spp.)**

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Fred B. Ledebøer	LF-300	Blue Knight
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)	OFFICIAL USE ONLY	
22068 Case Road, NE, Aurora, OR 97002	PVPO NUMBER	
	200/00267	

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g., 0 9), 0 8 1). Those characteristics marked with a star \* are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: RHSCC. Describe location of test area, conditions, and number of plants used: clay loam soil, pH 5.3, open, flat, irrigated as needed, 30 spaced plants, Aurora, Oregon

**1. SPECIES:**


 1 = *Poa compressa*
 2 = *P. pratensis*
 3 = *P. trivialis*
 4 = Others (Specify) \_\_\_\_\_

Chromosome number

2. ADAPTATION: (0 = Not tested, 1 = Not adapted, 2 = Adapted, 3 = Well adapted)

0	Northeast	0	Transitional zone	0	Southeast	0	North Central
2	Pacific N.W.	2	Intermountain	0	Southwest (CA., AZ.)		
0	Other (Specify) _____						

**3. MATURITY (At first anthesis):** Give test area

★ 3 Table V  
 1 = Very early                      2 = Early (Delta, Mystic)                      3 = Medium early (Fylking, Nugget)  
 4 = Medium late (Newport, Adelphi, Aquila)                      5 = Late (Merion, Baron, Enmundi)  
 6 = Very late (Pacific)

0 9

Number of days earlier than

**Date of First Anthesis**

1

}

1 = ~~Noget~~ **Midnight**

4 = Merlon

7 = Mystic

**Broadway**

2 = Fylking

5 = Newport

8 = Sabre

0 5

Number of days later than

6

}

2 = ~~Delf~~

5 = Newport

8 = Sabre

3 = ~~Delf~~

6 = Baron

9 = Reubens

4. PLANT HEIGHT (At maturity-Average of longest shoot of 10 plants from soil surface to top of panicle): Test area Aurora, Oregon

★ 2 Table I  
1 = Short (Nugget)      2 = Medium short (Baron, Fylking, Mystic)

<p>3 = Medium tall (Merion, Adelphi)</p> <p>★ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px; text-align: center;">7</td><td style="width: 20px; height: 20px; text-align: center;">8</td></tr></table></p> <p>cm Height</p> <p><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table></p> <p>cm Shorter than</p> <p>Height same as</p> <p><table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px; text-align: center;">0</td><td style="width: 20px; height: 20px; text-align: center;">3</td></tr></table></p> <p>cm Taller than</p>		7	8			0	3	<p>4 = Tall (Delta)</p> <p>1 = Nugget</p> <p>5 = Newport</p> <p>9 = Reubens</p>	<p>6 = Very tall</p> <p>2 = Fylking</p> <p>6 = Baron</p> <p>3 = <del>Delta</del> <sup>Broadway</sup></p> <p>4 = Merion</p> <p>7 = Mystic</p> <p>8 = Sabre</p>
	7	8							
0	3								

**5. GROWTH HABIT:**

\* 2 Habit: 1 = Prostrate (Nugget)      2 = Semi-prostrate (Merion)      3 = Erect (Delta)

0 4 2 cm Amount of spread by rhizomes in 1 year (give test area Aurora, Oregon)

## 6. LEAF BLADE:

200100267

- ★ ☐ 4 Green Color: 1 = Light green (Mystic) 2 = Medium green (Fylking, Bonnieblue) Table II  
3 = Moderately dk. green (Merion, Adelphi) 4 = Very dk. green (Nugget, Glade, Enmundi)
- ★ ☐ 4 Bluegreen color: 1 = Not bluegreen (Mystic, Touchdown, Parade) 2 = Moderately bluegreen (Merion, A-34) Table II  
3 = Bluegreen (Nugget, Enmundi, Adelphi) 4 = Strongly bluegreen (Majestic)
- ☐ 2 Winter color: 1 = Light green 2 = Dark green 3 = Light purple  
4 = Dark purple 5 = Not purple 6 = Not green or purple
- ★ ☐ 1 Hairs upper side: 1 = Absent (Nugget) 2 = Sparse (Merion) 3 = Dense (Park)
- ☐ 1 Hairs lower side: 1 = Absent (Fylking, Merion) 2 = Sparse 3 = Dense (Nugget)
- ☐ 2 Luster upper side: 1 = Shiny (Eclipse, Enmundi) 2 = Dull (Aquila, Parade)
- ☐ 2 Luster lower side: 1 = Shiny (Mystic, Enmundi) 2 = Dull (Barbie, Eclipse)
- ★ ☐ 2 Margin hairs (Fringe on Margin or Base): 1 = Absent (Delta) 2 = Present (Fylking, Merion)
- ★ ☐ 2 Width: 1 = Very fine (Mystic) 2 = Fine (Nugget) 3 = Medium (Merion, Fylking)  
4 = Broad (Adelphi, Baron) 5 = Very broad (Monopoly)

☐ 0 ☐ 3

mm Width (flag leaf)

☐ 0 ☐ 6

mm Narrower than

★ ☐ 6  
★ ☐  
★ ☐

Width same as

☐ ☐

mm Wider than

☐ 0 ☐ 3 ☐ 6

mm Length (flag leaf)

☐ 2 ☐ 7

mm Shorter than

★ ☐ 1  
★ ☐  
★ ☐

Length same as

☐ ☐

mm Longer than

☐ 1

Position of flag leaf (angle to stem):

- 1 = Nugget 2 = Fylking 3 = Delta  
4 = Merion 5 = Newport 6 = Baron  
7 = Mystic 8 = Sabre 9 = Reubens
- Midnight  
1 = ~~Nugget~~ 2 = Fylking 3 = Delta  
4 = Merion 5 = Newport 6 = Baron  
7 = Mystic 8 = Sabre 9 = Reubens
- 1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

## 7. LEAF SHEATH:

☐ 3 ☐ 3

mm sheath length

★ ☐ 1

Seedling Color (base of sheath): 1 = Green (Nugget, Merion) 2 = Red (Delta)

★ ☐ 1

Hairs on Margin: 1 = Absent (Fylking) 2 = Present (Nugget)

★ ☐ 1

Margin Roughness (to touch): 1 = Smooth (Delta) 2 = Rough (Sabre)

☐ 1

Hairs on Surface: 1 = Absent ( ) 2 = Present (Nugget)

☐ 1

Surface Roughness (to touch): 1 = Smooth (Fylking) 2 = Rough (Ram I)

☐ 1

Hairs on both sides just beneath leaf blade (under collar): 1 = Absent (Merion) 2 = Present (Nugget)

★ ☐ 1

Hairs on Ligule: 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)

☐

Glaucosity: 1 = Absent (Mystic, Enmundi) 2 = Present (Birka)

☐ 2

Keel: 1 = Absent (Ram I) 2 = Present (Adelphi)

## 8. PANICLE (Mature Plant):

0	8	2
0	2	1

mm Length (Lowest branch whorl to top, for 10 plants) Test area: Aurora, Oregon

mm Shorter than

1
---

Midnight

1 = Nugget

2 = Fylking

3 = Delta

Panicle same as

6
---

4 = Merion

5 = Newport

6 = Baron

mm Longer than

--

7 = Mystic

8 = Sabre

9 = Reubens

★

2
---

Color (at 50% flowering): 1 = Not red (Fylking)

2 = Red (Nugget)

★

1
---

Shape of Rachis (opposite lower side branches):

1 = No bend (Nugget)

2 = Bend (Merion)

★

1
---

Collar:

1 = Opened (Nugget)

2 = Closed (Merion)

★

2
---

Branches Attitude (Lowest whorl):

1 = Drooping (America, Prato)

2 = Horizontal (Merion)

3 = Ascending (Tundra)

0	5
---	---

Number of main branches in lowest whorl

★

2
---

Panicle Habit:

1 = Nodding (Newport)

2 = Upright (Nugget)

★

1
---

Panicle Type:

1 = Open

2 = Intermediate

3 = Compact

1
---

Anther color (anthesis):

1 = Purple

2 = Yellow

3 = Brown

## 9. LEMMA

1
---

Keel

1 = Glabrous

2 = Slightly pubescent

3 = Pubescent

★

1
---

Marginal Nerves

★

2
---

Intermediate Nerves:

1 = Distinct

2 = Obscure

★

1
---

Basal Webbing:

1 = Absent

2 = Scant (Baron)

3 = Copious (Merion)

## 10. SEED: (Floret-not dehulled)

2
---

Apomixis Percentage:

1 = more than 95

2 = 85 to 95

3 = less than 85

★

--

Phenol Reaction:

1 = none-lemma removed (Merion)

2 = Beige (Cougar)

3 = Brown (Windsor)

4 = Black (Mystic-2 hrs)

5 = Black (

-24 hours)

0	8	1
---	---	---

mm. Width (average of 10)

3	4	7
---	---	---

mm Length

--	--	--

Milligrams per 10,000 seed

--	--	--

Milligrams less than

--	--	--

Weight same as

--	--	--

Milligrams more than

★

4
---

Weight Class (g per 10,000 seed):

Table IV

1 = Nugget

2 = Fylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 = Reubens

8 = Sabre

1 = Light ( &lt; 3g Sydsport, Merion)

2 = Medium ( 3g - 4g Adelphi, Parade)

3 = Heavy ( &gt; 4g Fylking, Nugget)

## 11. ENVIRONMENTAL RESISTANCE: (0 = Not tested; 1 = Very susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant)

4
---

western Oregon

0
---

Cool Temperature (Winter color)

0
---

Cold (injury)

0
---

Heat

0
---

Drought

0
---

Shade

0
---

Low Fertility

3
---

Acid Soil (&lt; pH 5.5)

0
---

Alkalinity (pH &gt; 7.5)

0
---

Salinity

3
---

Soil Compaction

0
---

Poor Drainage

0
---

Air Pollution

--

Other (Specify)

## 12. DISEASE RESISTANCE: (0 = Not tested, 1 = Very susceptible, 2 = Moderately susceptible, 3 = Moderately resistant, 4 = Highly Resistant)

0
---

Melting-Out Drachlera poae (Helminthosporium vagans)

0
---

Sclerotinia Patch S. borealis

0
---

Helminthosporium Leaf Spot Bipolaris sorokiniana

3
---

Stem Rust Puccinia graminis

0
---

Brown Patch Rhizoctonia solani

3
---

Stripe Rust P. striiformis

3
---

Powdery Mildew Erysiphe graminis

0
---

Leaf Rust P. poae-nemorale

0
---

Stripe Smut Ustilago striiformis

0
---

Orange Stripe Rust P. poarum

## 12. DISEASE RESISTANCE (Continued)

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<input type="checkbox"/> 0	Flag Smut <u>Urocystis agropyri</u>	<input type="checkbox"/> 0	Pythium Blight <u>Pythium</u> spp.
<input type="checkbox"/> 0	Pink Snow Mold <u>Fusarium nivale</u>	<input type="checkbox"/> 0	Red Thread <u>Corticium fuciforme</u>
<input type="checkbox"/> 0	Ergot <u>Claviceps purpurea</u>	<input type="checkbox"/>	Other _____
* <input type="checkbox"/> 0	Fusarium Blight <u>Fusarium roseum</u> , <u>F. tricinctum</u>	<input type="checkbox"/>	Other _____
<input type="checkbox"/> 0	Typhula Blight <u>Typhula</u> spp.		
<input type="checkbox"/> 0	Dollar Spot <u>Sclerotinia homoeocarpa</u>		

## 13. INSECTS, NEMATODES, RESISTANCE: (0 = Not tested; 1 = Very susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant)

<input type="checkbox"/> 0	Chinch Bug <u>Blissus</u> spp. (give species: _____)
<input type="checkbox"/> 0	Sod Webworm <u>Crambus</u> spp. (give species: _____)
<input type="checkbox"/> 0	Bluegrass Billbug <u>Sphenophorus parvulus</u> _____
<input type="checkbox"/> 0	White Grub (Japanese Beetle, Chafer. (give species: _____)
<input type="checkbox"/> 0	Greenbug Aphid <u>Schizaphis graminum</u>
<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Other _____

## 14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Baron	2	Leaf width	Midnight	2
Height	Baron	2	Leaf color spring	Midnight	2
Seed size	Baron	3	Leaf color summer	Baron	3
Seed weight	Baron	3	Leaf color winter	Baron	3
Cold injury			Drought		
Heat			Disease ★ ★		
Shade					

★★ Specify each disease evaluated.

## 15. ADDITIONAL DESCRIPTION:

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

The varieties were grown in western Oregon where conditions for growing Kentucky bluegrasses are less than ideal. Low pH (near 5) and very wet and mild winters generally result in very poor performance. Yet Blue Knight forms a very tight and excellent turf under these conditions. A fertility program emphasizing fall and late fall applications and light late spring application has been used with excellent success.

The total nitrogen application was a moderate 4 lbs N/1000sqft/yr. All nitrogen was in water soluble form. The ration of N-P-K was annually about 4-1-2.





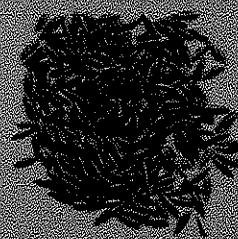
Midnight



Blue Knight



Midnight



Blue Knight

Table I. Morphological Comparisons of Several Kentucky Bluegrass Cultivars in Western Oregon During the 2000-2001 Growing Seasons.

Variety	Plant Height cm		Flagleaf Height cm		Flagleaf Length cm		Flagleaf Width mm		Panicle Length cm		No. of Whorls		Branches at Lowest Whorl		Diameter at 3rd Node mm	
	00	01	00	01	00	01	00	01	00	01	00	01	00	01	00	01
Midnight	75	78	46	47	6.9	7.0	4.8	4.7	10.3	9.8	5.8	5.5	5.0	4.5	2.8	2.4
Blue Knight	77	79	47	46	3.6	3.9	3.5	3.4	8.1	8.4	5.3	5.4	3.0	2.9	2.2	2.1
Baron	79	78	45	46	6.4	6.6	5.2	5.0	8.8	8.6	5.4	5.3	4.0	4.0	3.9	4.0
Broadway	74	74	46	44	5.7	6.1	4.8	4.7	9.2	10.1	5.6	5.8	3.7	3.8	2.8	3.0
Average	76	78	46	46	5.6	5.9	4.6	4.4	9.3	9.0	5.5	5.5	3.8	3.8	2.9	2.9
LSD 0.05	3	4	3	3	2.8	2.7	.9	.8	3.1	3.2	.8	.7	1.1	1.3	.6	.7

Note: All counts were on the tallest culm on 30 spaced plants of each variety.

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Table II. Ratings of Turf Quality, Turf Density and Turf Color as well as Leaf Color of Several Kentucky Bluegrass Cultivars at Aurora, Oregon from 1998 through 2000.

Variety	Turf Quality			Av.	Turf Density			Av.	Turf Color			Av.	RHSOC	
	98	99	00		98	99	00		98	99	00		00	01
Midnight	7.2	7.4	7.1	7.3	7.4	7.7	7.6	7.6	7.9	7.8	7.9	7.9	137B	137B
Blue Knight	8.1	8.3	8.2	8.2	8.7	8.8	8.9	8.8	8.6	8.7	8.7	8.7	137A	137A
Baron	6.4	6.3	6.4	6.3	7.1	6.9	6.8	6.9	6.2	6.2	6.3	6.2	138A	138A
Broadway	6.9	7.1	7.0	7.0	7.8	7.7	7.7	7.7	7.5	7.4	7.3	7.4	137B	137B
Average	7.2	7.3	7.1	7.2	7.7	7.8	7.7	7.8	7.3	7.4	7.3	7.3		
LSD 0.05	1.0	.9	.9	.7	1.1	1.0	1.0	.6	.7	.8	.7	.5		

Notes: For characteristic rated visually - 1 least to 9 best, densest, or darkest

Turf quality ratings monthly on three replications

Density and color ratings in July on three replications - approximately two months after the last fertilizer treatment.

RHSOC data were taken on spaced plants in May at heading time.

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Table III. Foliar Disease Occurrence on Several Kentucky Bluegrass Cultivar Grown as Spaced Plants in Aurora, Oregon During 2000 and 2001.

Variety	% Stripe Rust		% Powdery Mildew		% Stem Rust	
	00	01	00	01	00	01
	Av.		Av.		Av.	
Midnight	80	85	83	75	85	80
Blue Knight	2	3	2	4	5	5
Baron	45	48	47	28	20	24
Broadway	20	28	24	30	28	29
Average	38	41	39	34	34	34
LSD 0.05	17	21	16	18	15	14
					20	18
					41	44
					46	50
					47	47
					42	42
					15	15

Note: Visual ratings made in Mid-May at peak occurrence on 15 untreated plants. The other 15 plants were treated several times with Bravo and Tilt.

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Table IV. Seed Characteristics of Several Kentucky Bluegrass Cultivars

Variety	10 Seed Length mm**	10 Seed Width mm**	10,000 Seed Weight* mg
Midnight	31.6	6.9	3765
Blue Knight	34.7	8.1	3698
Baron	29.5	7.4	4169
Broadway	28.3	7.1	3191
Average	31.2	7.4	3406
LSD 0.05	4.1	.8	--

Notes:\*Weight determined by Agri Seed Testing, Inc., Salem, OR, August 2001.

\*\* Four replicate counts each for seed length and width

Table V. Heading and Maturity Dates of Several Kentucky Bluegrass Cultivars During 2000 and 2001 at Aurora, Oregon.

Variety	50% Heading Date		Seed Harvest Date	
	00	01	00	01
Midnight	5/20	5/22	7/4	7/5
Blue Knight	5/8	5/6	6/25	6/22
Baron	5/8	5/9	6/20	6/19
Broadway	5/5	5/3	6/20	6/19
Average	5/10	5/10	6/26	6/24

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICEEXHIBIT E  
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)

Fred B. Ledebner

2. TEMPORARY DESIGNATION  
OR EXPERIMENTAL NUMBER

LF-300

3. VARIETY NAME

Blue Knight

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)

22068 Case Road, NE, Aurora, OR 97002

5. TELEPHONE (Include area code)

503.678.2597

6. FAX (Include area code)

503.678.2272

7. PVPO NUMBER

200100267

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain

☒

YES

☐

9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country

☒

YES

☐

NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

The applicant and owner has operated his breeding and development program by himself since 1995.

## PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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